



# TellLab

### Demo

Location: Demo  
 Unit ID: IS2  
 Model: Iveco - 150E24F/P  
 Machine Type: Engine, Diesel: Liquid-Cooled



Elevated lead level suggests bearing wear present. Advice: Re-sample at the next service intervention.

Padraig Kelly, 13 May 2015

Oil	Castrol	Enduron Low SAPS	Sample ID	45F7E6 (P4762)	4004F0 (N12355)	378EB9 (N4236)	2F5038 (M9997)	2818EC (M3596)	
Note: Oil change				Sampled on	14 Apr 2015	17 Oct 2014	14 Apr 2014	16 Sep 2013	08 Feb 2013
				Received on	11 May 2015	27 Nov 2014	29 Apr 2014	20 Sep 2013	27 Mar 2013
				Km Total	168007	159449	150556	84538	124516
				Km Oil					
				Top up (l.)					
				Warning Limits	▲	●	▲	●	●
ASTM D6595-00 WEAR METALS	Iron	ppm	100	52	37	78	13	16	
	Chromium	ppm	10	4	3	5	1	2	
	Nickel	ppm	10	<1	<1	<1	<1	<1	
	Molybdenum	ppm	100	44	47	47	46	44	
	Aluminium	ppm	10	3	3	5	2	2	
	Lead	ppm	20	20	12	72	1	4	
	Copper	ppm	15	3	2	4	<1	1	
	Tin	ppm	10	<1	<1	<1	<1	<1	
	Silver	ppm		<1	<1	<1	<1	<1	
	Titanium	ppm		<1	<1	<1	<1	<1	
ASTM D6595-00 CONTAMINANTS	Silicon	ppm	20	6	5	8	5	4	
	Sodium	ppm	15	8	8	9	8	5	
	Vanadium	ppm		<1	<1	<1	<1	<1	
ASTM D6595-00 ADDITIVES	Calcium	ppm		1548	1601	1661	1525	1551	
	Magnesium	ppm		545	627	750	565	537	
	Phosphorus	ppm		788	871	877	753	748	
	Zinc	ppm		948	934	1123	910	935	
	Barium	ppm		<1	<1	<1	<1	<1	
	Boron	ppm	100	75	76	75	76	80	
ASTM D445	Viscosity at 40°C	cSt	72 - 97	91	86	89	82	85	
	Viscosity at 100Å°C	cSt	10.9 - 14.8	13.3	13.1	13.7	12.8	13.3	
ASTM E2412	TBN	mg KOH/g	<4.00	8.33	9.16	6.47	9.62	9.66	
	Water	ppm	1000.0	584.6	642.8	609.9	93.6	318.1	
	OX	abs/mm2		21.5	18.5	21.4	13.6	15.3	
	Glycol (Antifreeze)	%		0.0	0.0	0.0	0.0	0.0	
	Soot	%wt	3.0	0.2	0.1	0.3	0.0	0.1	
	Fuel Dilution	%	3.0	0.0	0.0	0.0	0.0	0.0	

Date 02 Oct 2015