

Machine Id YANMAR Yanmar 55 54730B

Component **1 Diesel Engine**

DURALENE Dura-Max 15W40 (8 QTS)

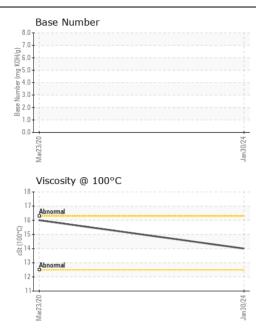
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0030588	DC0004314	
	Sample Date		Client Info		30 Jan 2024	23 Mar 2020	
	Machine Age	hrs	Client Info		6399	5908	
	Oil Age	hrs	Client Info		491	500	
	Filter Age	hrs	Client Info		0	500	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>80	22	55	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>6	<1	1	
	Nickel	ppm	ASTM D5185m	>2	0	<1	
	Titanium	ppm	ASTM D5185m	>2	0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>20	4	8	
	Lead	ppm	ASTM D5185m	>95	<1	1	
	Copper	ppm	ASTM D5185m	>85	1	3	
	Tin	ppm	ASTM D5185m	>9	<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	10	
	Potassium	ppm	ASTM D5185m	>20	1	2	
There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.4	1	
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	11.9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	24.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	10	
	Boron	ppm	ASTM D5185m		3	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		4	6	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		76	95	
	Calcium	ppm	ASTM D5185m		2401	2312	
	Phosphorus	ppm	ASTM D5185m		988	892	
	Zinc	ppm	ASTM D5185m		1214	1108	
	Sulfur	ppm	ASTM D5185m		3883	2456	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	21.4	
	Base Number (BN)	mg KOH/g	ASTM D2896		7.2		

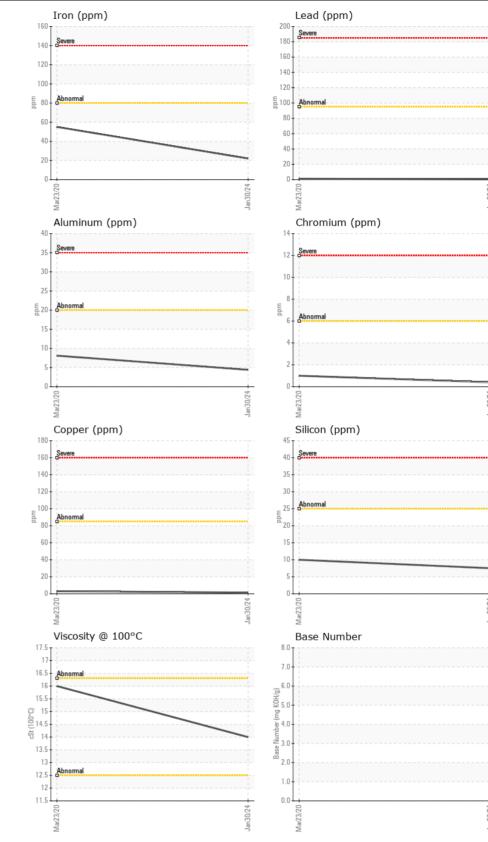
Visc @ 100°C cSt

ASTM D445

16.0

14.0





NEW DIRECTION UTILITIES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : DC0030588 Received 21616 KELSO DR : 14 Feb 2024 Lab Number : 06089395 : 15 Feb 2024 HAGERSTOWN, MD Tested Unique Number : 10876840 : 15 Feb 2024 - Wes Davis US 21742 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: GARY BLOYER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gary@newdirectionutilities.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (301)714-0083 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: GARY BLOYER

Page 2 of 2