

OIL ANALYSIS REPORT

Area MINING **ME-69 KOMATSU PC360 A38346**

Diesel Engine

Fluid SHELL RIMULA SUPER SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Sample Rating Trend



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0939893		
Sample Date		Client Info		30 May 2024		
Machine Age	hrs	Client Info		1980		
Oil Age	hrs	Client Info		480		
Oil Changed	1110	Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0		
Water		WC Method		NEG		
Glycol		WC Method	20.2	NEG		
-				NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	4		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		54		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		63		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		405		
Calcium	ppm	ASTM D5185m	2840	1982		
Phosphorus	ppm	ASTM D5185m	1150	1081		
Zinc	ppm	ASTM D5185m	1270	1275		
Sulfur	ppm	ASTM D5185m	2829	3766		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9		
Nitration	Abs/cm	*ASTM D7624	>20	8.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3		
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2		
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	8.6		
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